

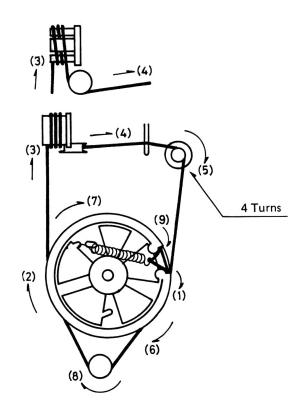
# SANYO 4-BAND 2-AUDIO-CHANNEL PORTABLE RADIO RP 8252/8251 SERVICE MANUAL



A PRODUCT OF SANYO ELECTRIC CO., LTD.

D105 1S188AM D106 VM11T AM AGC Frequency Ranges: (#RP8251SS/AS) MW 510-1605 kHz Limiter SW1 2.3-7.3 MHz SW2 7.3-22.0 MHz FM 87.5-108 MHz LW 150-350 kHz MW 510-1605 kHz SW 5.95-18.0 MHz D107 DS442 Blank FM Limiter FM Limiter D108 DS442 D301 1S188FM D302 1S188AM D303 1S188FM Frequency Ranges: AM Detector (#RP 8252E/ZM/G) FM Discriminator D304 1S188FM **FM** Discriminator FM 88-108 MHz AM 455 kHz (RP 8251SS/AS) AM 460 kHz (RP 8252E/ZM) AM 470 kHz (RP 8252G) D305 DS442 Meter Intermediate Frequency: D306 MV11T D701 DS131 D702 DS132 Limiter Rectifier Rectifier FM 10.7 MHz Q101 2SC930E Q102 2SC930D Q103 2SC930D Q301 2SC930E Q302 2SC930D D703 YZ060 Regulator FM RF Amplifier (for 50mW output) (for 50mW output) Transistors: LW 140μV/m MW 30μV/m SW 18μV SW1 30μV/m Sensitivities: FM Converter AM Converter FM/AM IF Amplifier (for 50mW output) (for 50mW output) (for 50mW output) (for 30dB S/N) FM/AM IF Amplifier FM/AM IF Amplifier FM IF Amplifier Q302 2SC930D Q303 2SC930E Q304 2SC930D Q305 2SC536F Q701 2SC536F Q702 2SC536G Q703 2SB324E SW2 15µV FM 12µV Maximum 4.0W Audio Output: viaximum 4.0W Undistorted 2.7W DC 6V (Four "D" size batteries) AC 120/200/240V for model RP 8251SS/AS) AC 220V for model RP 8252 G/E AC 120/220/240V for model RP 8252 ZM Meter Audio Amplifier Tweeter Driver Power Source: Tweeter Audio Output Tweeter Audio Output Woofer Audio Amplifier Woofer Driver Q704 2SB324E Q704 2SB324E Q705 2SC536F Q706 2SC536G Q707 2SB474R Q708 2SB474R No signal 60mA Maximum 1200mA Current Drain: Woofer Audio Output Tweeter 60mm Permanent Dynamic, 4 ohms Woofer 120mm Permanent Dynamic, 8 ohms 236mm(W) x 252mm(H) x 108mm(D) (9-1/4" x 10" x 4-1/4") Approx. 2100g. (4-5/8 lbs.) Woofer Audio Output Voltage Regulator Speakers: Q709 2SB187R FM Limiter FM AFC Dimensions: D101 1S188FM Diodes: D102 1S553 D103 DS442 D104 DS442 SW Limiter Weight: SW1/LW Limiter

### DIAL CORD STRINGING \_



Part No.	Description	Q'ty	Part No.			Description	Q'ty
PACKING			CHASSIS				
141-6-411T-62100	Instruction Book, RP 8252 E for Continental	1	141-2-331T-02	2200	Battery Ho	lder	1
141-6-411T-62100	Instruction Book, RP 8252 ZM	1 1	141-2-538T-02		Drum, Cha	ssis mtg.	1
141-6-411T-62101	Instruction Book, RP 8252 G, for U.K.	1	141-2-567T-00	0080	Pulley Shat	ft, Drum mtg.	1
141-6-411T-62000	Instruction Book, RP 8251 SS/AS	1	141-2-411T-06			Pulley Shaft mtg.	1
141-6-141T-05905	Individual Carton, RP 8252 E,	1	141-2-446T-05			hion, Indicator Upper	1
	for Continental		141-2-446T-05			hion, Tweeter Speaker mtg.	1
141-6-141T-05902	Individual Carton, RP 8252 ZM,	1	141-2-371T-06			ansformer mtg.	1
	for Continental		123-2-376R-10			ning Capacitor mtg.	1
141-6-141T-05904	Individual Carton, RP 8252 G, for U.K.	1	123-2-538R-00			ing Capacitor mtg.	1
141-6-141T-05901	Individual Carton, RP 8251 SS, for	1	123-2-481R-11		Spring Coil		1
	general market	ا . ا	141-2-661T-16			ey Shaft mtg.	1
141-6-141T-07000	Individual Carton, RP 8251 AS, for Australia		123-2-567R-11			t, P.C.B. mtg.	1
141-6-311T-02000	Top Pad, for Australia	1	123-0-566R-13	3900		ft Assembly	1
	Pad	2	l			shion, 3.5 x 6 x 3.5mm, Bracket	2
141-6-231T-04200	Polyethylene Bag, Unit, RP 8252 G	1				10 x 10 x 3mm, Socket	1
	Polyethylene Bag, 350 x 500mm, Unit,	1	141-2-446T-0	5601	riastic Cush	nion, Indicator	1
	RP 8252 E/RP 8251	1					
141-6-453R-00100	Polyethylene Bag, 100 x 200mm Serial No. Sheet	2	Ī				<u>L</u>
141-0-453H-00100		1					
	Label, Caution, RP-8252 ZM/RP 8251 SS	1	MISCELLAN	VEOL	S		
	Label, Caution, RP-8252 ZM/RP 8251 SS Label, Caution, RP 8251 AS	1		00	_		
	Label, FTZ, RP 8252 E	1	4 4545 15	2000	0	N 14/ 7-	1
	Label, Made in Japan, RP 8252 G	i	4-151T-16			2cm, Woofer	1
	Guarantee Card, RP 8252 G	i	4-151T-15			m, Tweeter	1
20 0 30111-11700		'	4-612T-02		Pilot Lamp	o, Light	li
			4-511T-05 4-256T-80		Indicator	er, Red CF 301	li
0.4.0.111.000		1	or 4-256T-80		FM IF Filt		1 .
CABINET		1	or 4-256T-80		FM IF Filt		
			or 4-256T-80		FM IF Filt		
141-0-111T-214912		1	or 4-256T-80		FM IF Filt		1
141-0-126T-136916	Back Lid Assembly, RP 8252 E	1	4-244R-12			Rod Antenna	1
	Cabinet Assembly, Front, RP 8252 ZM	1	4-235T-26			wer RP 8251	1
141-0-126T-136912		1	4-235T-26			wer RP 8252	1
141-0-111T-214912		1	4-235T-29			rphone/Stereo Out	1
141-0-126T-136914		1	4-235T-23		Socket, DI		1
141-0-111T-214911 141-0-111T-214911		1	4-243T-76			d Assembly, 6A 250V,	1
141-0-126T-136911 141-0-210T-002012		1			RP 8251		
141-0-210T-002912	Bracket Assembly, Dial Scale & Mechanism, RP 8252	1	4-243R-14	1501	Power Cor	d Assembly RP 8252E	1
141-2-146T-03402	Dial Scale, RP 8252	(1)	4-243T-74	1900	Power Core	d Assembly, RP 8252 ZM	1
141-2-210T-00200	Bracket	(1)	4-243T-73			d Assembly, RP 8252 G	1
141-2-329T-03300	Reflector	(1)	4-234T-03			A (SEMKO)	1
141-2-538T-02900	Drum	(1)	141-2-381T-01		Bracket, F		2 2
141-2-581T-02300	Gear, Drum mtg.	(1)	123-2-471R-10		Core, Q10		1
141-2-851T-81700	Spring Coil, Gear mtg.	(1)	141-2-135T-32 141-2-368T-08			ver Socket mtg.	
141-2-853T-37100	Srping Plate	(1)	141-2-3001-00	500		2SB474 mtg. 2SB324 mtg. (R1B Fin)	2 2
123-2-210R-20100	Bracket, Gear Shaft	(1)	141-2-322T-18	2901		e, Parts Side	1
123-2-581R-11100	Gear, Dial Scale	(1)	141-2-322T-18			e, Bottom Side	1
R-Y112304	Type Screw, Pan Hd. 2.3 x 4mm	(1)	123-2-382R-00		Terminal,		3
141-0-210T-00 <b>2911</b>		1	123-2-474R-00		Tip, Test P		5
1.41 2 1/CT 02/01	RP 8251	100	123-2-382R-00			Γip mtg. (Rod Αntenna)	1
141-2-146T-03401	Dial Scale, RP 8251	(1)	141-2-336T-06		Terminal E	lattery, Spring Coil, (-)	1
	Rubber Cushion, 3.5 x 6 x 3.5mm, Light Rubber Cushion, 5 x 10 x 13mm, Speaker	1 1	141-2-336T-09	400	Terminal E	lattery, Spring Plate, (-)	1
141-2-161T-22400	Push Button, Light	1	141-2-336T-04	1903	Terminal E	lattery, Plate (+)	2
141-0-128T-02300	Battery Lid Assembly		123-2-472R-00			Anttena mtg.	2
141-2-372T-03300	Bracket, Speaker mtg. (Large)	l i l	141-2-472T-02		Lug, Tone		1
141-2-372T-03100	Bracket, Speaker mtg. (Small)	il	141-2-464T-08		Fixer, Lead		2
141-2-135T-32900	Cover, LOUDNESS, AFC/MW, POWER	اغا	123-2-472R-11		Lug, Tone	Volume	1
	Switch	-	4-235R-02		Socket, Ex	t. Anttena, RP 8251	1
141-6-424T-07900	Battery Sheet, UM-1 x 4	1	123-2-472R-10			Anttena, RP 8251	1
141-0-163T-07500	Rotary Knob Assembly, Tuning	i	4-226T-75			embly, RP 8252	1
141-2-163T-22500	Rotary Knob, Sound Control	2	4-226T-75	2991	P.C.B. Ass	embly, RP 8251	1
141-2-163T-22600	Rotary Knob, Main Volume, Tone	2					
41-2-163T-26100	Rotary Knob, Fine Tuning	1	C-1 ·				
141-0-162T-02900	Lever Knob Assembly, Band Select	1	Schematic	P	art No.	Description	
141-2-352T-10200	Spacer, Tuning Knob	1	Location				
			CONTROLS	3			
CHASSIS					4D 00400	Tunion Constitute	
1/1 0 211T 17100	Chassis Assamble	1	vc		1R-08400	Tuning Capacit Or	
141-0-311T-17199	Chassis Assembly Chassis	(1)	CT2 1 202		4R-20700	Fine Tuning Capacitor	
141-2-311T-17100 141-2-661T-19200	Pulley	(1)	CT2-1,202 CT1		4R-02400 4R-01400	Trimmer, 8pF × 2 Trimmer, 8pF	
. 71-2-001(*13200	Fiber Washer, 3.2 x 8 x 0.5mm	(1)	CT3		4R-01400 4R-01600	Trimmer, 8pF	
	Dial Cord, 0.3 x 800mm	1 1	C13    R708		2T-39100	Main Volume Control,	
141-2-363T-04100	Bracket, Fine Tuning Capacitor	1	''''	4-222	21-33100	100K ohms "B"	
			11 0747 700	1		Sound Control, Woofer/Twee	ter
141-2-365T-28200	Bracket, Voltage Select Switch	1	R717,728	1 4.77	2T-39300	South Colition - Magnety i Med	,,

Scheamtic Location	Part No.	Description	Schemati Location		Part No.		Description
CONTRO	LS		TRANS	FOF	RMERS		
R730 R355 S1 S2,3 S5 S5 S6 S6 S8 S7	4-222T-39200 4-222T-03100 4-231T-50300 4-231T-17200 123-2-483R-14300 123-2-382R-17800 4-231R-17250 4-231T-42100 4-231T-37600	Tone Control, 100K ohms "W" Mini-pot, Meter Adjust, 2K ohms Rotary Slide Switch, Band Select Switch Slide Switch, AFC/MW, Loudness Spring plate, Light Switch Terminal, Light Switch Slide Switch, Power Switch Slide Switch, Power Switch Switch, 120/200/240 V. RP8251	T305 T306 T701 T702	4-25 4-25 4-25 4-25 4-25 4-25	6T-80300 6T-07200 66R-00230 64R-02300 64T-11400 64T-13200 61T-39500 61T-40300	RP IF I Input Input Pow	Fransformer, AM 460 kHz, 8252 E/ZM Fransformer, AM 470 kHz, 8252 G Fransformer, AM ut Transformer, Tweeter ut Transformer, Woofer put Transformer, Woofer ver Transformer, AC 220V, RP 8252E ver Transformer, AC 120/200/240V,
SEMICON	4-231T-37602 IDUCTORS	Switch, 120/220/240V, RP 8252ZM	T704 T704		51T-39600 51T-39700	Pov RP Pov	8251 ver Transformer, AC120/220/240V, 8252 ZM ver Transformer, AC 240V, RP 8252G 8252G
Q101,301,	2SC930E	Transistor, 2SC930E					
303 Q102,103, 302,304	2SC930D	Transistor, 2SC930D	CAPAC All capac	ITO	RS (Ceramio t	c) ype,	50V unless otherwise specified.
Q305,701, 705 Q702,706 Q703,704 Q707,708 Q709 D101,301, 303,304	2SC536F 2SC536G 2SB324E 2SB474R 2SB474Y 2SB187R 1S188FM	Transistor, 2SC536F  Transistor, 2SC536G  Transistor, 2SB324E  Transistor, 2SB474Red  Transistor, 2SB474Yellow  Transistor, 2SB187Red  Diode, 1S188FM	C319 C331 C136 C107 C117 C101,113 C111 C116,123	3	R-CKD01 R-CKD02 R-CKD03 R-CKD03 R-CKD05 R-CKD05 R-CKD05	0C 0C 0D 0C 0D 0D 0D	1pF ±0.25pF 2pF ±0.25pF 3pF ±0.5pF RP 8252 3pF ±0.25pF 3pF ±0.5pF 5pF ±0.5pF 5pF ±0.25pF 5pF ±0.25pF 5pF ±0.5pF RP 8251
D102 D103,104, 107,108, 305 D105,302 D106,306 D701 D702 D703 TH301 TH701,702 703	1S553 DS442 1S188AM MV11T DS131 DS132 YZ060 SDT-1000 SDT-06	Diode, 1S553 Diode, DS442 Diode, 1S188AM Diode, MV11T 1.21-1.27V Diode, DS131 Diode, DS132 Diode, YZ060 Thermistor, SDT-1000 Thermistor, SDT-06	130 C301 C103 C118 C102 C123,117 C127 C115,121 C112 C118 C116 C137 C106		R-CKD06 R-CKD08 R-CKD10 R-CKD10 R-CKD15 R-CKD15 R-CKD22 R-CKD22 R-CKD25 R-CKD25 R-CKD25	0D 0D 0D 0D 0D 0D 0D 0D	6pF ±0.5pF 8pF ±0.5pF 8pF ±0.5pF RP 8251 10pF ±10% 10pF ±10% 12pF ±10% 12pF ±10% 22pF ±5% N470 22pF ±10% RP 8252 13pF ±10% RP 8252 22pF ±10% RP 8251 25pF ±5% 25pF ±5% 25pF ±10%
COILS			C104,320 C130 C324	)	R-CKD30 R-CKD60 R-CKD10	10J 10K	30pF ±10% 60pF ±5% RP 8252 100pF ±20%
L101,102, 105,111, 116 L101,102, 105,111 L117 L112 L103 L104 L106 L107 L110	4-265R-05000  4-265R-05000  4-265R-11200 4-265R-01300 4-265R-12000 4-265R-14800 4-253R-11160 4-257T-12201  4-257T-12201	VHF Coil, 6-1/2 turns, RP 8251  VHF Coil, 6-1/2 turns, RP 8252  VHF Coil, 3-1/2 turns, RP 8251  VHF Coil, 3-1/2 turns  VHF Coil, 3-1/2 turns  VHF Coil, 3-1/2 turns  VHF Coil, 3-1/2 turns  RF Chork Coil, 1 \( \mu \) H  Antenna Coil Assembly,  MW/SW1, RP 8251  Antenna Coil Assembly,  LW/MW, RP 8252  Antenna Coil, SW2, RP 8251	C131,32' 722 C109 C303 C114,12( 305,31' C105,13' 306,30' 314,31' 328,33' 731,73' 736,73' 735 C317,71'	0,133 1,135 2,304 3,309 3,327 0,730 3,734 7,110	R-CKD20 R-CKD10 R-CKD10 3, R-CKD10 4, R-CKD20 9, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7,	01M 01M 02Z 03Z 03Z	200pF ±20%  500pF ±20%  0.001mfd +80, -20%  0.01mfd +80, -20%  0.02mfd +80, -20%  0.1mfd ±20%
L109 L108 L108	4-257R-27300 4-253R-10700 4-255R-10700	Antenna Coil, SW, RP 8252 Choke Coil, 39 µH RP 8252 Choke Coil, 15 µH RP 8251	CAPAC All capac	ITO	RS (Mylar) s are mylar ty	pe, §	50V unless otherwise specified.
L114 L115 L113 L115 L113	4-258R-28100 4-258T-09300 4-258T-11100 4-258R-28200 4-258R-28340	Oscillator Coil, MW Oscillator, Coil, SW1, RP 8251 Oscillator Coil, SW2, RP 8251 Oscillator Coil, LW, RP 8252 Oscillator Coil, SW, RP 8252	C302,72 C729 C124 C125 C727 C701	5,73	R-CQS33 R-CQS33 R-CQS33 R-CQS4	32M 32M 32M 32M 92M 72M	0.001 mfd ±20% 0.0033 mfd ±20% 0.0033 mfd ±20% RP 8251 0.0033 mfd ±20% RP 8252 0.0039 mfd ±20% 0.0047 mfd ±20%
TRANSI	ORMERS		C119 C128 C703		R-CQS4 R-CQS6	72M 72M	0.0047mfd ±20% RP 8251 0.0047mfd ±20% RP 8252 0.0068mfd ±20%
T301 T302 T303 T304 T305	4-256R-20830 4-256R-19530 4-256R-15130 4-256R-02330 4-256T-06000	IF Transformer, FM IF Transformer, FM IF Transformer, FM IF Transformer, FM IF Transformer, AM 455 kHz, RP 8251	C134,31 C110,72 C307,31 350 C124,32 C719	7,74 3,30	3   R-CQS1	ME0 ME0 ME0 ME0	0 01mfd ±20% 0.01mfd ±20% RP 8252 0.02mfd ±20% RP 8252

Schematic Location	Part No.	Description	Schematic Location	Part No.	Description
CAPACITOR	S (Mylar)	,	RESISTORS		
C712 C316	R-CQS393M R-CQS473M	0.039mfd ±20% 0.047mfd ±20%	R112,303,724,	R-R471K	470 ohm
C704 C720	R-CQS683M R-CQS823M	0.068mfd ±20% 0.082mfd ±20%	R118,712,715,	R-R561K	560 ohm
C715	R-CQS203M	0.02mfd ±20% RP 8251	R746	R-R821K	820 ohm
C701 C715,716 C302 C129	R-CQS682M R-CQS102M R-CQS152M R-CQT141J	0.0068mfd ±20% RP 8252G 0.001mfd ±20% RP 8252 0.0015mfd ±20% Styrol 140pF ±5% 125V, RP 8252	R101,104,304, 307,311,318, 322,323,327, 713,704,743	R-R102K	1K ohm
C126	R-CQT271J	Styro! 270pF ±5% 125V	R109	R-R122K	1.2K ohm
C129 C122	B-CQT302J R-CQT302J	Styrol 1200pF ±5% 125V, RP 8251 Styrol 3000pF ±5% 125V, RP8252	R330	R-R182K	1.8K ohm
C122 C326,702,708	R-CQ13023 R-CQ1342J R-C9126	Styrol 3400pF ±5% 125V, RP 8251 Electrolytic 0.1mfd 10V	R120,703,705, 711,718,731, 737	R-R222K	2.2K ohm
721 C310	R-C9175	Flooring 0.47mfd 10V	R315	R-R272K	2.7K ohm
C310 C329,705	R-C9175	Electrolytic 0.47mfd 10V Electrolytic 1mfd 6.3V	R125,328,714, 729,745	R-R332K	3.3K ohm
C323,707,724	R-C9882	Electrolytic 4.7mfd 6.3V	R739	R-R392K	3.9K ohm
C312,718	R-C9205	Electrolytic 10mfd 6.3V	R736	R-R472K	4.7K ohm
C723		Electrolytic 22mfd 6.3V	R111,126	R-R562K	5.6K ohm RP 8251
C711,714,728 C717	R-C9808 R-C9879	Electrolytic 100mfd 6.3V Electrolytic 220mfd 10V	R105,119,324, 325	R-R562K	5.6K ohm
C706,709,726	R-C9875	Electrolytic 220mfd 6.3V	R111	R-R682K	6.8K ohm RP 8252
C732	R-C9930	Electrolytic 2200mfd 10V	R721,720,738 R326	R-R682K	6.8K ohm 10K ohm RP 8252
			R312,719	R-R103K R-R103K	10K ohm
	<del></del>	L	R127,333,709	R-R123K	12K ohm
RESISTORS			R350	R-R153K	15K ohm
	carbon type, ±1	0% and 1/4W unless otherwise specified.	R108,305,317, 309.334	R-R153K	15K ohm
R723,735	R-R3R3K	3.3 ohm	R710	R-R273K	27K ohm
R116	R-R5R6K	5.6 ohm RP 8252	R117	R-R333K	33K ohm
R115	R-R100K	10 ohm RP 8251	R706	R-R393K	39K ohm
R115	R-R220K	22 ohm RP 8252	R302,332	R-R473K	47K ohm
R113,308	R-R220K	22 ohm	R733,732	R-R563K	56K ohm
R316	R-R330K	33 ohm	R707	R-R683K	68K ohm
R103,716,744, 752	R-R560K	56 ohm	R702	R-R823K	82K ohm RP 8251
R725.727	R-R680K	68 ohm	R329,331	R-R104K	100K ohm
R106,110,740	R-R101K	100 ohm	R734	R-R184K	180K ohm
R747	R-R121K	120 ohm	R701,751 R102.114	R-R224K R-R334K	220K ohm
R320,314	R-R151K	150 ohm	R102,114	R-R334K R-R105K	330K ohm 1M ohm
R121,722,741,	R-R221K	220 ohm	R702	R-R 105K	100 onm   390K ohms RP 8252
R321	R-R271K	270 ohm	R748	R-ROR2J	Winding type 0.22 ohm ±5% 1W
R301,306,313, 319,742	R-R331K	330 ohm	R760	R-R102K	1K ohms

### MW BAND - Band selector switch in MW position

Step	Connection of Signal Gen.	Input Signal Frequency	Dial Setting of Radio	Connection of Output Meter	Adjust	Remarks
1	Loop Antenna	455 kHz	Lowest End	Across Speaker	IFT T305, T306	Adjust for Maximum
2	Same	505 kHz (595 m)	Lowest End	Same	Osc. Coil L114	Same
3	Same	1650 kHz	Highest End	Same	Osc. Trim CT3	Same
4	Same	600 kHz (500 m)	600 kHz (500 m)	Same	Ant. Coil L110a	Same
5	Same	1400 kHz (214 m)	1400 kHz (214 m)	Same	Ant. Trim VCT1-3	Same

# SW1 BAND - Band selector switch in SW1 position

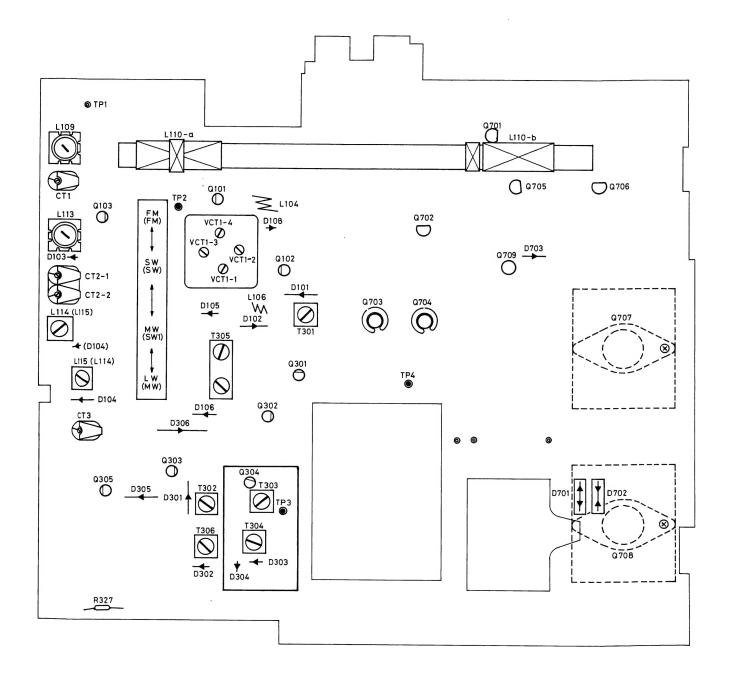
7	Loop Antenna	2.2 MHz	Lowest End	Across Speaker	Osc. Coil L115	Adjust for Maximum
8	Same	7.6 MHz	Highest End	Same	Osc. Trim CT2-2	Same
9	Same	2.5 MHz	2.5 MHz	Same	Ant. Coil L110b	Same
10	Same	6.5 MHz	6.5 MHz	Same	Ant. Trim VCT1-4	Same
1,1	Repeat steps 7 t	hru 10 to obtai	n maximum ser	sitivity.		

# SW2 BAND - Band selector switch in SW2 position

12	Thru Dummy Antenna to TP1 and TP2.	5.75 MHz	Lowest End	Across Speaker	Osc. Coil L113	Adjust for Maximum
13	Same	23.0 MHz	Highest End	Same	Osc. Trim CT2-1	Same
14	Same	8.0 MHz	8.0 MHz	Same	Ant. Coil L109	Same
15	Same	21 MHz	21 MHz	Same	Ant. Trim CT1	Same
16	Repeat steps 12	and 15 to obta	in maximum se	nsitivity.		

## FM BAND - Band selector switch in FM position

17	Connect Sweep Marker Gener- ator to TP.1 and TP.2.			Connect scope input cable thru network to TP.3 and TP.4.	IFT T301, T302 & T303	Adjust for maximum sensitivity with symmetrical curve.
18	Same	10.7 MHz	Lowest End	Connect scope input cable thru network to TP.3 and TP.4.	IFT T304	Adjust for symmetrical "S" curve.
19	Connect Signal Generator to TP.1 and TP.2	87 MHz	87 MHz	Connect V.T.V.M. across speaker	Osc. Coil L106	Adjust for maximum.
20	Same	109 MHz	109 MHz	Same	Osc.Trimmer VCT1-2	Same
21	Same	90 MHz	90 MHz	Same	RF Coil L104	Same
22	Same	108 MHz	108 MHz	Same	RF Trimmer VCT1-1	Same
23	Repeat steps 19	thru 22 to obta	ain maximum se	nsitivity.		



# MW BAND - Band selector switch in MW position

Step	Connection of Signal Gen.	Input Signal Frequency	Dial Setting of Radio	Connection of Output Meter	A.djust	Remarks
1	Loop Antenna (Aerial)	460 kHz (470)	Lowest End	Across Speaker	IFT T305, & T306	Adjust for Maximum
2	Same	505 kHz (595 m)	Lowest End	Same	Osc. Coil L114	Same
3	Same	1650 kHz	Highest End	Same	Osc. Trim CT2-2	Same
4	Same	600 kHz (500 m)	600 kHz (500 m)	Same	Ant, Coil L110b	Same
5	Same	1400 kHz (214 m)	1400 kHz (214 m)	Same	Ant. Trim VCT1-4	Same

### LW BAND — Band selector switch in LW position

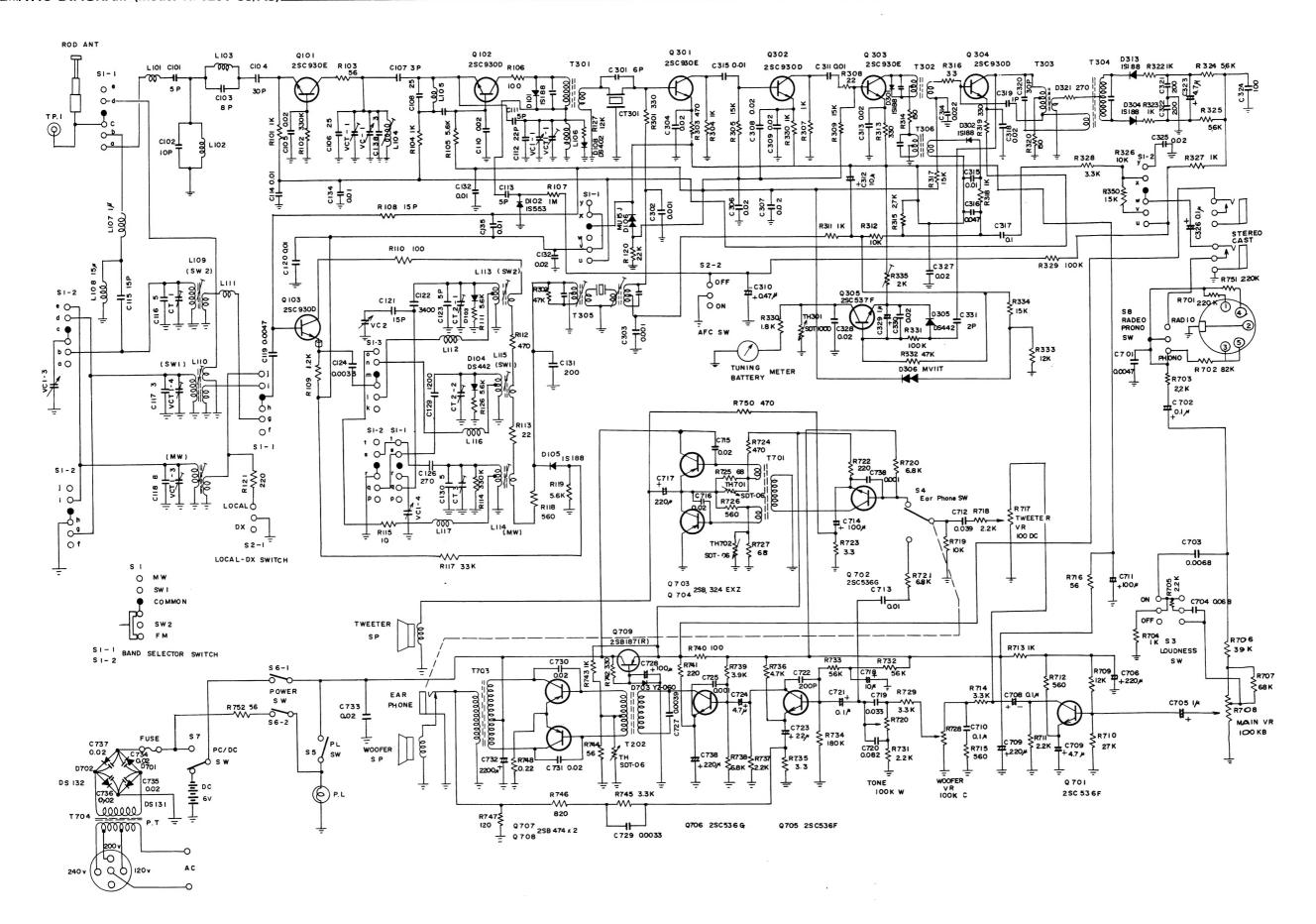
7	Loop Antenna	145 kHz (2060 m)	Lowest End	Across Speaker	Osc. Coil L115	Adjust for Maximum
8	Same	365 kHz (825 m)	Highest End	Same	Osc. Trim CT3	Same
9	Same	160 kHz (1870 m)	160 kHz (1870 m)	Same	Ant. Coil L110a	Same
10	Same	340 kHz (880 m)	340 kHz (880 m)	Same	Ant. Trim VCT1-3	Same
11	Repeat steps 7 t	hru 10 to obtai	n maximum sen	sitivity.		

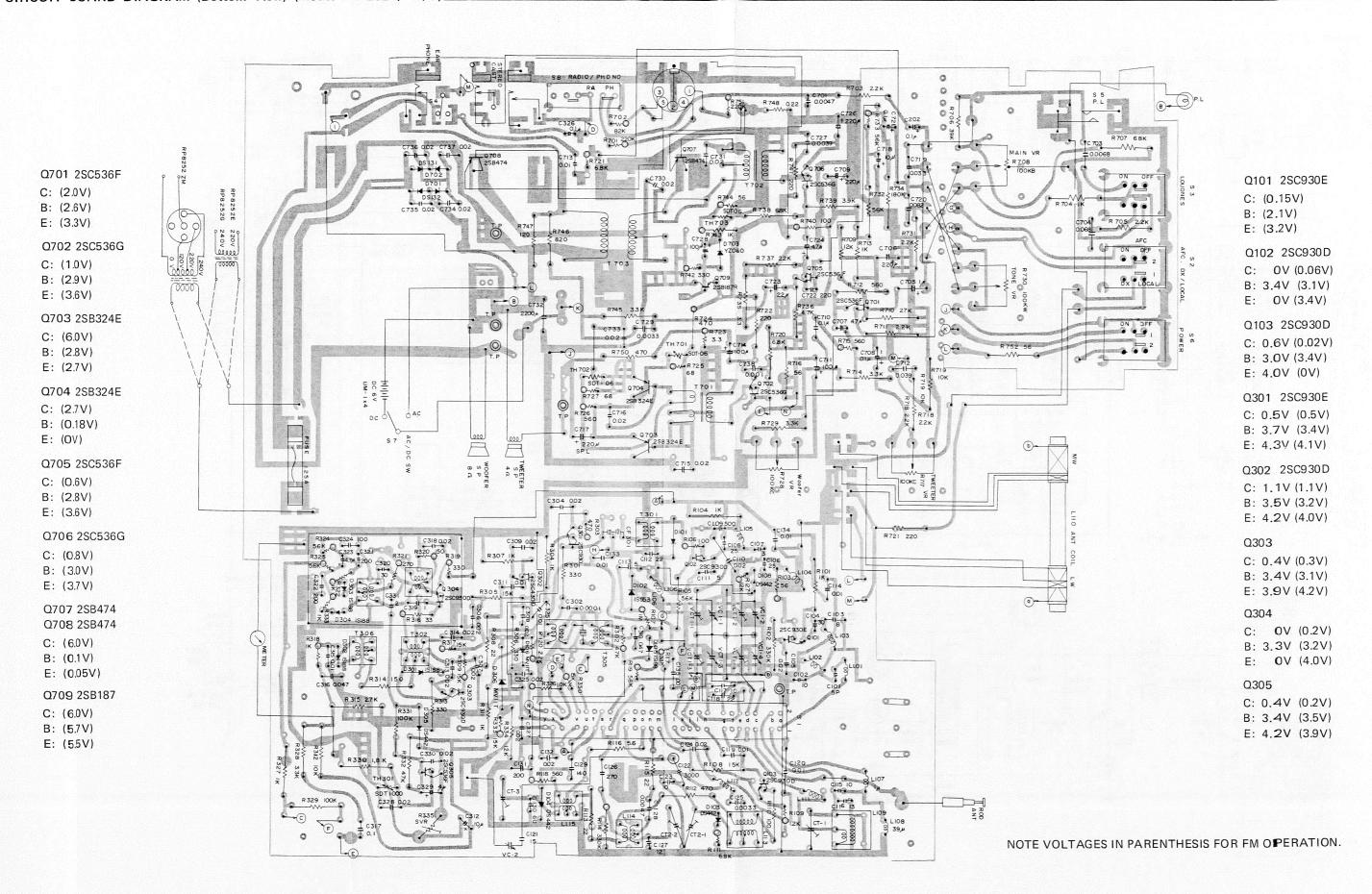
## SW BAND - Band selector switch in SW position

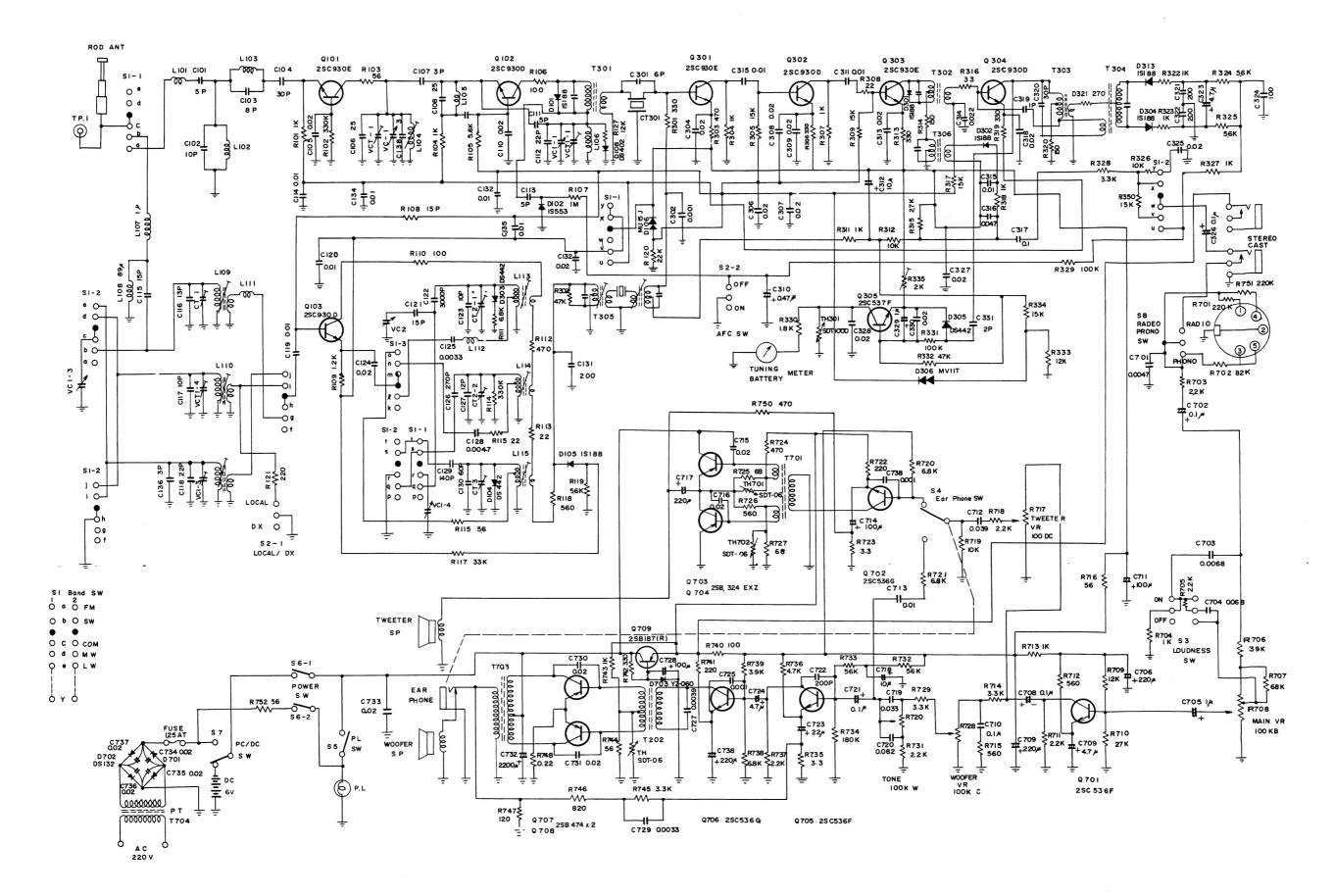
12	Thru Dummy Antenna to TP1 and TP2.	5.85 MHz	Lowest End	Across Speaker	Osc. Ccil L113	Adjust for Maximum
13	Same	19.0 MHz	Highest End	Same	Osc. Trim CT2-1	Same
14	Same	6.5 MHz	6.5 MHz	Same	Ant. Coil L109	Same
15	Same	17.5 MHz	17.5 MHz	Same	Ant. Trim CT1	Same
16	Repeat steps 12	and 15 to obta	in maximum ser	nsitivity.		

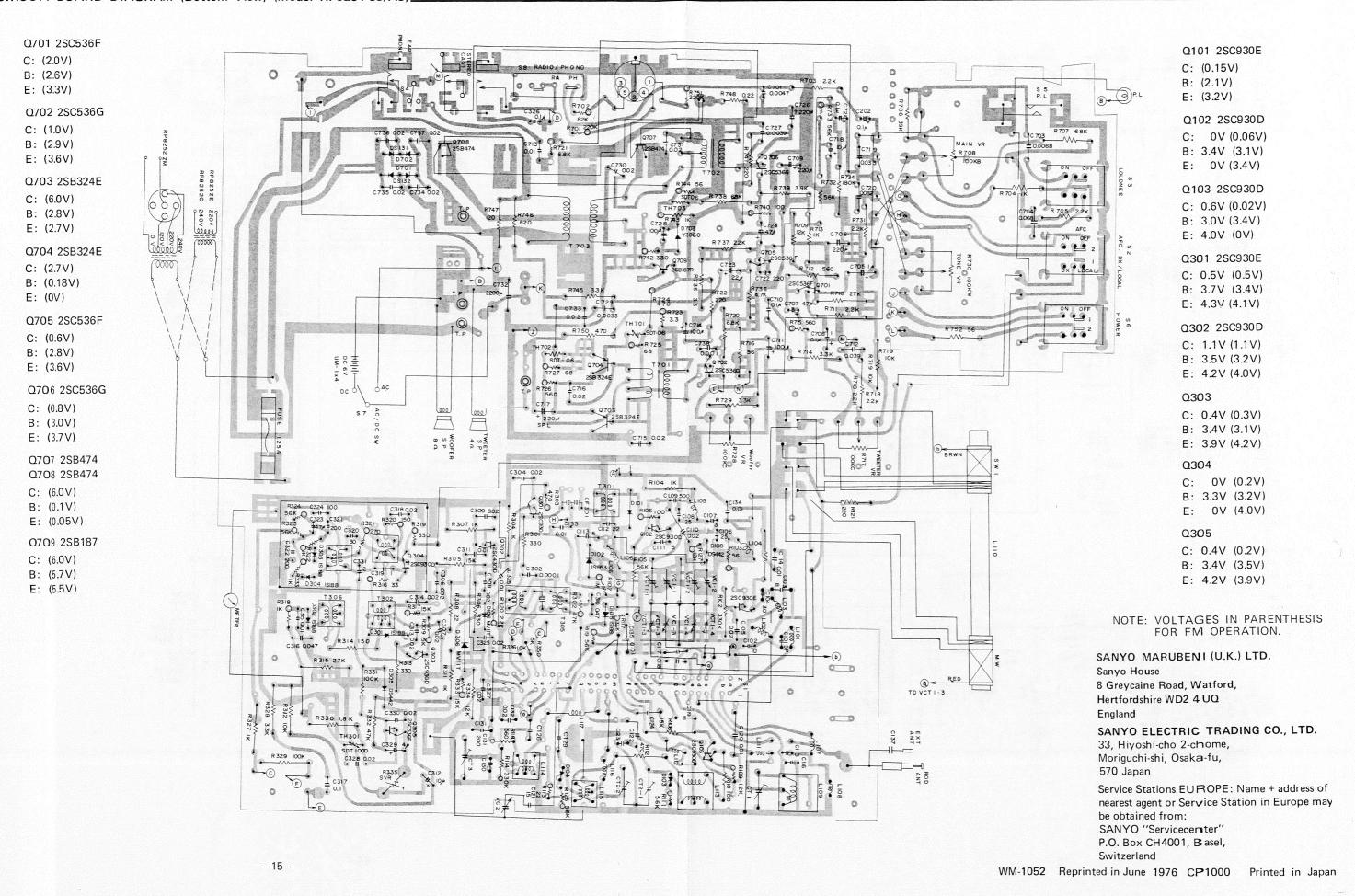
### FM BAND - Band selector switch in FM position

17	Connect Sweep Marker Gener- ator to TP.1 and TP.2.			Connect scope input cable thru network to TP.3 and TP.4.	IFT T301,T302 & T303	Adjust for maximum sensitivity with symmetrical curve.
18	Same	10.7 MHz	Lowest End	Connect scope input cable thru network to R327 and TP.4	IFT T304	Adjust for symmetrical "S" curve.
19	Connect Signal Generator to TP.1 and TP.2	87 MHz	Lowest End	Connect V.T.V.M. across speaker	Osc. Coil L106	Adjust for maximum.
20	Same	109 MHz	Highest End	Same	Osc.Trimmer VCT1-2	Same
21	Same	90 MHz	90 MHz	Same	RF Coil L105	Same
22	Same	106 MHz	106 MHz	Same	RF Trimmer VCT1-2	Same
23	Repeat steps 19	thru 22 to obta	ain maximum se	nsitivity.		









# **MODIFICATION NOTICE**

### SANYO PORTABLE RADIO Chassis Nos. **RP 8252ZM** Serial Nos. RP 8251 Run Nos. RP 8252E RP 8251 (AUS) Date RP 6850 (USA) RP 8252 RP 8252G **RP 6850 (CANADA)** Date Jun. 10, 1977 Issued by \_\_\_\_\_

The following corrections should be made in the SERVICE MANUALS and PARTS (PRICE) LIST.

Section	Ref. No.	Original Part No.	New Part No.	Description	Reason
Controls	S2,3	4-231T-17200	4-231R-17200	Slide switch AFC/MW, Loudness	E

SANYO ELECTRIC TRADING CO., LTD. OSAKA, JAPAN